

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
600 FIFTH STREET, N.W.
WASHINGTON, D.C. 20001

November 18, 2015

AMENDMENT NO. 2
TO
INVITATION FOR BID
FOR
SIX (6) TIE BREAKER STATIONS UPGRADE ORANGE AND BLUE LINES VA, DC AND MD
FQ15237/GG

TO WHOM IT MAY CONCERN:

The Invitation for Bid for IFB FQ15237/GG requesting Bids for the above project is hereby changed in part as listed below.

1. Volume 1 – Bidding and Contracting Requirements

Delete the following pages and in lieu thereof substitute the accompanying pages:

<u>DELETE</u>	<u>SUBSTITUTE</u>	<u>DESCRIPTION</u>
Table of Contents, p.14	Table of Contents, p.14	Revised
Clause 14. Pre-Award Information, par. 3 (a), p.25	Clause 14. Pre-Award Information, par. 3 (a), p.25	Revised
Clause 2.1.4 (c) Access to Site and Hours of Work, p.128	Clause 2.1.4 (c) Access to Site and Hours of Work, p.128	Revised
Clause 2.1.4 (g) Access to Site and Hours of Work, p.130	Clause 2.1.4 (g) Access to Site and Hours of Work, .130	Revised
Clause 2.1.4 (Table 1) Access to Site and Hours of Work, p.134	Clause 2.1.4 (Table 1) Access to Site and Hours of Work, p.134	Revised
Clause 2.1.7 Interim Work Completion Milestone, p.138	Clause 2.1.7 Interim Work Completion Milestone, p.138	Revised
Clause 2.23 Construction Sequence and Staging (b), p. 167	Clause 2.23 Construction Sequence and Staging (b), p. 167	Revised

2. Volume 2 – Technical Specifications

<u>DELETE</u>	<u>SUBSTITUTE</u>	<u>DESCRIPTION</u>
Section 16501D, pg. 36	Section 16501D, pg. 36	Revised
Section 16265, pg. 143	Section 16265, pg.143	Revised
Section 16265, pg. 144	Section 16265, pg. 144	Revised
Section 16265, pg. 145	Section 16265, pg. 145	Revised
Section 16265, pg. 147	Section 16265, pg. 147	Revised
Section 16265, pg. 150	Section 16265, pg. 150	Revised
Section 16266, pg. 151	Section 16266, pg. 151	Revised
Section 16266, pg. 159	Section16266, pg. 159	Revised
Section 16266, pg. 160	Section 16266, pg. 160	Revised
Section 16291A, pg. 184	Section 16291A, pg. 184	Revised
Section 16291A, pg. 185	Section 16291A, pg. 185	Revised
Section 16341, pg. 224	Section 16341, pg. 224	Revised
Section 16343B, pg. 234	Section 16343B, pg. 234	Revised
Section 16343B, pg. 235	Section 16343B, pg. 235	Revised
Section 16343B, pg. 236	Section 16343B, pg. 236	Revised
Section 16602, pg. 249	Section 16602, pg. 249	Revised
Section 16603, pg. 275	Section 16603, pg. 275	Revised
Section 16604, pg. 300	Section 16604, pg. 300	Revised

3. Volume 3A – TBS Technical Drawings

<u>DELETE</u>	<u>SUBSTITUTE</u>	<u>DESCRIPTION</u>
TBS-G-010	TBS-G-010	Revised
K06TB2-TB-200	K06TB2-TB-200	Revised
K07TB1-TB-200	K07TB1-TB-200	Revised
K07TB2-TB-200	K07TB2-TB-200	Revised
G01TBS-TB-200	G01TBS-TB-200	Revised
G02TB1-TB-200	G02TB1-TB-200	Revised
G02TB2-TB-200	G02TB2-TB-200	Revised
G02TB2-TB-202	G02TB2-TB-202	Revised
G02TB2-TB-300	G02TB2-TB-300	Revised
G02TB2-TB-400	G02TB2-TB-400	Revised
G02TB2-TB-500	G02TB2-TB-500	Revised

4. Volume 3B – SCADA Technical Drawings

<u>DELETE</u>	<u>SUBSTITUTE</u>	<u>DESCRIPTION</u>
ST-SC-G-SSI-200	ST-SC-G-SSI-200-AM1	Revised

5. Volume 4 – Added

ADD:

WMATA Standard Drawings. Contact Rail Drawings. CRS-E-33.
 WMATA Standard Drawings. Contact Rail Drawings. CRS-E-37.
 WMATA Standard Drawings. Contact Rail Drawings. CRS-E-39

5. Acknowledgment

Bidders are required to acknowledge receipt of this Amendment on Bid Form in the spaces provided. Failure to acknowledge all Amendments may cause the Bid to be considered non responsive to the IFB, which would require rejection of the Bid.



Richard Owens
Contracting Officer
Office of Procurement

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* Appendices L, M, N will be provided upon request. Request must be sent to Contract Administrator's email: ggufanova@wmata.com AM2

Volume 2 - Technical Provisions

Volume 3 - Drawings

Volume 4 - WMATA Standard Drawings. Contact Rail Schematics AM2

completion dates or milestones.

(e) A list of major materials, including model numbers and catalog data, for each of the project items and other major elements of the work to include any long lead times for delivery. **AM1**

1. Buy America compliance – Provide a statement that each major material item complies with the Buy America Act.

(f) A list of all major equipment that the bidder expects to use to accomplish the work of this contract. **AM1**

(3) Performance Plan

a) Provide a time scale bar chart per TBS with the major elements of work including but not limited to:

- (a) Notice to Proceed
- (b) Submittals
- (c) Approvals
- (d) Fabrication and delivery
- (e) Disconnection of TBS from system
- (f) Demolition
- (g) Equipment installation
- (h) Electrical connections
- (i) Controls
- (j) Startup and testing

b) The work shall be substantially complete for K06TB2 Greenwich Street and K07- TB02 Prosperity Avenue by September 30, 2016. The work shall be complete on all the TBS by NTP + 495 calendar days. **AM 2**

c) Submit a list of Spare Parts as specified in Item 008 SPARE PARTS – OPTION 1 in Notes to Bidders, attached to UNIT PRICE SCHEDULE

(4) Financial Statements

Complete financial statements for the last two (2) years, including Statement of Financial Position (Balance Sheet), Results of Operations (Income Statement), Statement of Changes in Financial Position (Net Change in Resources) and Statement of Current and Retained Earnings. These statements shall be certified indicating disclosure of all facts which could impair or affect the statements presented.

(5) Affirmative Action Program

An affirmative statement by the Contractor as to its intent and ability to comply with articles for Affirmative Action or Equal Opportunity. This shall include the number of employees directly employed by the contractor.

(6) Safety Program

The following information regarding his safety program and his past safety performance:

(a) Accident incident rates for the past twelve months for lost time accidents and for medical

- (1) Access: The Contractor's right to work at the Site as approved by the Authority.
- (2) Non-Revenue Weekday: Monday to Friday when the Authority is not operating revenue service trains and the track is made available to the Contractor.
- (3) Revenue Service Adjustment (RSA) - There are two service conditions:
 - Weekend Single Tracking (single rail operation) is when one (1) of the two (2) main line Metrorail tracks is removed from service between two (2) or more Interlockings during revenue service hours and the track is made available to the Contractor.
 - Total Shutdown is when both main line Metrorail tracks are removed from service between two (2) or more Interlockings during revenue service hours and the tracks are made available to the Contractor.
- (4) Site: The areas that are occupied by or used by the Contractor and Subcontractors during performance of the construction of the Project as indicated in the IFB Documents.

c. REFERENCES

The Contractor shall comply with the following Authority's Standard Operating Procedures:

- (1) Metrorail Safety Rules and Procedures Handbook (MSRPH) and Temporary Orders to MSRHP
 - (2) WMATA, Office of Rail Transportation Maintenance Operations Control, Administrative Procedure OAP 200-33, Site Specific Work Plan (SSWP)
 - (3) Roadway Worker Protection Manual (RWPM)
 - (4) Not Used AM 1
 - (5) Not Used AM 2
 - (6) General Orders and Track Rights System (GOTRS) Request Form
 - (7) Escort Request Form
 - (8) Switch Order Form
 - (9) Site Specific Work Plan (SSWP) Form
 - (10) Authority Standard Operating Procedures – SOP #19, SOP #28, SOP #39, SOP #41, SOP # 49
- * Roadway Worker Protection Manual (RWPM) will be provided to the Bidder and/or Contractor upon request. AM 2

d. SUBMITTALS:

Submit the following documents to the COR for approval to work in accordance with 2.5, CONTRACTOR'S SUBMITTALS:

- (1) Requests for Revenue Service Adjustment (RSA) 90 Days prior to the Work start date. The Contractor must have received Authority RSA approval prior to requesting track rights in the Authority GOTRS system.
- (2) An approved Site Specific Work Plan (SSWP) is required to perform Work on Authority property. Submit a SSWP request to the COR 90 Days prior to the planned start of Work

No. 6.10/5 dated May 18, 2011. The WMATA contractor identification badges are not valid for transportation on Metrobus or Metrorail and identification badges will be valid up to a maximum of one year. Should the Contractor's and Subcontractor's employees not have valid WMATA contractor identification badges, they will be dismissed from the Site and their work hours will not be compensated by WMATA.

f. TRACKWAY AND SAFETY WALK ACCESS TO TBS LOCATIONS

Trackway and Safety Walk Access to TBS for personnel, material and equipment is described below:

(1) Personnel Access:

- i. "Platform": Personnel shall access the G01 Benning Road (DC) TBS on foot via the safety walk from the nearest Metro Rail Station under the supervision of an Authority escort in accordance with SOP #49. Contractor shall install temporary guardrail and safety fencing to secure access to TBS from the trackway. Temporary guardrail and safety fencing shall be located to maintain clearance to the train clearance envelope. The Authority will provide escort support as outlined in Contractor's work plan approved by the Authority.
- ii. "Train Drop": Contractor personnel will be dropped off at TBS locations via Metro Rail train and picked up from TBS locations by non-rush hour Metro Rail trains under the supervision of an Authority escort in accordance with SOP #19. The Authority will install temporary platforms to facilitate access to the TBS. The Authority will provide escort support as outlined in the Contractor's work plan approved by the Authority. AM2
- iii. "Track" and "Track Walk": Personnel shall access the G02-1 56th Place TBS (DC) and G02-2 67th Avenue TBS (MD) locations via Ventilation/Fan Shaft at the street level, down a stairwell to the track level, and continue on foot via the safety walk from the nearest Metro Rail Station under the supervision of an Authority escort in accordance with SOP #19. In the event these locations prove it is not possible to erect temporary guardrail and safety fencing, procedures will be followed in accordance with SOP #49. The Authority will provide escort support as outlined in Contractor's work plan approved by the Authority.

(2) Material and Equipment Access:

"Track": At locations where the only access to a TBS is via the track way, i.e. at K07-1 Ogden St TBS (VA), G01 Benning Rd TBS (DC), G02-1 56th Place TBS, G02-2 67th TBS (MD), a prime mover, standard flat car, and operator will be provided by the Authority during Non-Revenue Weekday Hours for removal of material and equipment and delivery of material and equipment in accordance with Section 2.1.5 WORK TRAINS. This service shall be coordinated through the Authority under the supervision of an Authority escort in accordance with SOP #28. When applicable and if the sequence of work permits, Contractor shall schedule this service to supply multiple TBS locations in the same trip. Materials and equipment will be picked up and dropped off from Metro Rail Yards as coordinated by the Authority.

The Contractor shall plan for all tools, materials, and equipment needed to complete the work to be delivered directly to each TBS prior to the commencement of the work.

g. LOCAL STREETS, VENTILATION AND FAN SHAFTS ACCESS TO TBS LOCATIONS

Local streets or ventilation and fan shafts access to TBS for personnel, material and equipment is described below:

A. TABLE 1. ACCESS HOUR TABLE

#	Location	Description	Personnel Access	Equipment Removal/Delivery Method	Access Hour Allowances
1	K06-02 Greenwich St TBS (VA)	Surface Building	Local Street Access	Street Access	COA 0130 - 0400
					ERD *
					IC ** 24 hours
2	K07-01 Ogden St TBS (VA)	Surface Building	Street Drop off Access (Median of Route 66) and/or Train Drop	Inbound Track 01	COA 0130 - 0400
					ERD 0130 - 0400
					IC 24 hours
3	K07-02 Prosperity Ave TBS (VA)	Surface Building	Local Street Access	Street Access	COA 0130 - 0400
					ERD *
					IC ** 24 hours
4	G01 Benning Rd TBS (DC)	Below Ground ROW Beyond Platform	Via Platform to Safety Walk	Outbound Track 01	COA 0130 - 0400
					ERD 0130 - 0400
					IC 24 hours
5	G02-01 56 th Place TBS (DC)	Below Ground ROW Tunnel	Via Fan Shaft FG3 and Safety Walk	Outbound Track 01	COA 0130 - 0400
					ERD 0130 - 0400
					IC 24 hours
6	G02-02 67 th Ave TBS (MD)	Below Ground ROW Tunnel	Via Fan Shaft FG4 and Safety Walk	Inbound Track 02	COA 0130 - 0400
					ERD 0130 - 0400
					IC 24 hours

AM2

* Contractor shall be responsible to confirm allowable ERD work hours with Local Jurisdictions and COTR

** Contractor shall be responsible to confirm allowable IC work hours with the Local Jurisdiction. Contractor shall coordinate specific work hours with the Authority.

The Authority reserves the "Report to Site" times to establish the required safety conditions within the Roadway. The column in Table 1 labeled "Access Hour Allowances" indicates the time the Contractor shall be granted access to the Work in the Roadway. The Contractor is to report at the Authority designated Yard no later than the time established under Section 2.1.5 Work Trains for work involving the use of Trains. The On-Site access reporting time will be coordinated through the Authority in accordance with the work activity. Reporting times will be approved in Contractor project schedules and should include sufficient time to allow for Safety Briefing instruction and preparation of Roadway access activities when applicable.

loss of power, accident, terrorism, traffic overload, etc., the Contractor may be denied access to a previously approved Access schedule. If the Contractor is already on Site, Contractor may be directed to discontinue Work and clear the Site within fifteen (15) minutes.

An Authority escort or inspector shall be present at the Site at all times while Contractor personnel are working.

2.1.5 WORK TRAINS

- a. A work train will be provided by the Authority for transporting equipment, materials and tools to/from the work areas. The work train will consist of a Prime Mover and Standard Flat Car. It is the contractor's responsibility to confirm that materials will fit within the WMATA Dynamic Envelope shown in Appendix I "Dynamic Outline Diagram", once loaded onto the Standard Flat Car. If a Low Boy Flat Car is required it is the Contractors responsibility to provide. All Contractor provided rail mounted vehicles/cars must be inspected by WMATA Track and Structures prior to being permitted to operate on the system. **AM 2**
- b. The quantity of work trains to support Contractor activities is limited; therefore, advanced requests of at least 15 working days must be made by the Contractor to reserve the work train and to obtain corresponding track rights approval for third-rail outages. Any work performed by the Contractor within the track areas, including work performed on/from the work train, requires third-rail outages. The Contractor shall plan his work activities accordingly. Work trains are dispatched from a transit yard on the associated transit line where the work will be performed. Listed below are the approximate times that the work trains will be available for use by the Contractor; however, the exact time of arrival at the work site and the departure to the transit yard will be affected by the distance of the work site from the transit yard, other rail traffic, and directions by the Operations Control Center (OCC). It is also noted that revenue operational requirements could delay or prevent use of the work trains, even though scheduled in advance and approved. The Contractor shall anticipate delays when using work trains in his work activities. Contractor personnel will not be allowed to ride on the work trains and is required to provide the appropriate transportation between the transit yards and the work sites.

Approximate times that a work train will be available:

Event	Weekdays (Monday - Friday)	Weekends (Saturday & Sunday)
Pre-load work train at yard	10:00 p.m. (previous day)	11:00 p.m. (previous day)
Depart from yard towards work site	12:45 a.m.	3:15 a.m.
Depart from work site towards yard	4:00 a.m.	5:00 a.m.

The Contractor shall request for the use of a work train and/or a third-rail outage at least 15 working days prior to the proposed work date. The request shall include a complete schedule showing the times and personnel requirements to perform the work. The request shall be directed to the AR for appropriate coordination. However, final approval for track rights, third-rail outages, and train reservations will not be made until the close of business of the Wednesday preceding the Authority work week (Saturday

subject to change. Except when these hours are extended for special events or disrupted due to emergencies, they are:

- A. Monday through Thursday: 05:00 to 24:00
- B. Friday: 05:00 to 03:00 Saturday
- C. Saturday: 07:00 to 03:00 Sunday
- D. Sunday: 07:00 to 24:00

C. Rush hours are Monday through Friday 05:00 to 09:30 and 15:00 to 19:00.

D. Non-rush hours are the revenue hours during which train service is not designated as rush hour traffic:

- A. Monday through Thursday: 09:30 to 15:00 and 19:00 to 24:00
- B. Friday: 09:30 to 15:00 and 19:00 to 03:00 Saturday
- C. Saturday and Sunday: All revenue hours

E. WMATA Non-revenue hours are defined as the hours during which train service is closed to passenger traffic:

- D. Monday through Friday 00:00 to 05:00
- E. Saturday and Sunday 03:00 to 07:00

F. It may be necessary to extend Metrorail revenue hours to accommodate special events. The Authority will inform the Design-Builder of special events as soon as practical that may impact work hours so that Work can be planned accordingly.

2.1.7 INTERIM WORK COMPLETION MILESTONE

- a. The Contractor shall substantially complete the manufacturing and construction of K06TB2 Greenwich Street and K07TB2 Prosperity Avenue, to constitute successful completion of the interim work milestone by September 30, 2016.

AM 2

2.1.8 FINAL WORK COMPLETION

- a. The Contractor shall complete the contract items in full to include all Substantial Completion Inspection (SCIs) punchlist items, final cleanup, and receipt of all deliverables to constitute successful completion of work. Final Work Completion, including any outstanding punchlist items and closeout will be NTP + 495 days.

2.1.9 EARLY COMPLETION

If the Contractor shall submit a schedule or express an intention to complete the work earlier than any required milestone, interim or final completion date, the Authority shall not be liable for any costs incurred because of delay or hindrance should the Contractor be unable to complete the work before

- b. Sequencing for the (6) Locations should consider the following:
- (1) K06TB2 Greenwich St. and K07TB2 Prosperity Avenue must be substantially completed by September 30th, 2016 as outlined in Section 2.1.7, Interim Work Completion Milestone. **AM 2**
 - (2) Remaining locations include K07TB1 Ogden St, G01TB Benning Road, G02TB1 56th Place and G02TB2 67th Ave. should be completed in accordance with Section 2.1.8, Final Work Completion, and must adhere to the above, 2.23.1.a. Constraints (1)-(4).
- c. The Contractor shall conduct his work in a manner that will minimize interference with the operations of other contractors involved in the performance of related work. He shall bring his work to a stage of completion that will conform to the requirements specified in the WORK BY OTHERS article of these Special Conditions.
- d. The Contractor's particular attention is directed to the fact that both vehicular and pedestrian traffic must be maintained on the various existing streets within and adjacent to the project site at all times during the duration of the Contract.
- e. The Contractor shall coordinate all staging activities with the appropriate facilities managers as to work area, storage area and equipment movement

2.23.3 CONSTRUCTION STAGING - NOT USED

2.24 MEASUREMENTS

All dimensions shown on Contract Drawings and Specification shall be field verified by the Contractor by actual measurement of the existing work. Discrepancies between the Contract Drawings, Specifications and the existing conditions shall be referred to the AR prior to the commencement of work which would be affected.

2.25 OPERATION AND MAINTENANCE

2.25.1 OPERATION AND MAINTENANCE MANUALS

- a. The Contractor shall furnish manuals for equipment and systems as follows:

1. SUBMITTALS

- i. Make all submittals as specified below.
- ii. Operation and Maintenance:
 - (a) Furnish all completed Operation and Maintenance related materials.
 - (b) Furnish manuals for equipment and systems as required by the Contract Documents.
 - (c) Data copy included from standard catalogs shall be edited to reflect only conditions pertinent to this Contract.
 - (d) Data copy shall be suitable for dry-copy reproduction on standard office copy machines.
 - (e) Hard copy manuals shall be prepared using the following materials: